SUMMARY OF THE INVENTION

BOTANICAL CLASSIFICATION

Rosa hybrida

VARIETY DENOMINATION

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'POULhi021'

The present discovery constitutes a new and distinct variety of a miniature pot rose plant which was discovered in a cultivated area. The mutation resulted from 'Poulhi005', a miniature pot rose hybridized by the same inventors. 'Poulhi005' is described and illustrated in U.S. Plant Patent No. 10/177,230 with a filing date of June 21, 2002. The new rose variety resulted from a naturally occurring mutation of unknown causation on a branch of 'Poulhi005'.

The rose plant of the present discovery has the following unique combination of characteristics which are outstanding in the new variety and which distinguish it from the original rose 'Poulhi005'.

- Whereas 'Poulhi005' has a petal count of 32 to 34,
 'Poulhi021' has over 43 petals.
- Whereas 'Poulhi005' has an upper surface petal color of Red Group 44B, the same of 'Poulhi021' is Red Group 42A to Red Group 53B.

This combination of qualities is not present in previously available commercial cultivars of this type, known to the inventors, and distinguish 'POULhi021' from all other varieties of which we are aware. For example, 'POULhi021' has:

- 1. Uniform and abundant red flowers;
 - 2. Vigorous and compact growth;

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- Year-round flowering under glasshouse conditions;
- 4. Suitability for production from softwood cuttings in pots;
- 5. Durable flowers and foliage which make a variety suitable for distribution in the floral industry.

The resulting mutation was selected and evaluations were conducted on the resulting rose plants in a controlled environment.

Asexual reproduction of 'POULhi021' by cuttings and traditional budding was first done by L. Pernille and Mogens N. Olesen in their nursery in Fredensborg, Denmark in 1998. This initial and other subsequent propagations conducted in controlled environments have demonstrated that the characteristics of 'POULhi021' are stable and reproduced true to type in successive generations of asexual reproduction.

BRIEF DESCRIPTION OF THE DRAWING

The accompanying color illustration shows as true as is reasonably possible to obtain in color photographs of this type, the typical characteristics of the buds, flowers, leaves, and stems of 'POULhi021'. Specifically illustrated in the drawing:

- Fig 1.1; Open flower and stem showing open flower, branching and the attachment of leaves, buds, and peduncles;
- Fig 1.2; Flower bud closed, partially open, and open;
- Fig 1.3; Flower petals, detached;
- Fig 1.4; Sepals, receptacle, and pedicel;
- Fig 1.5; Juvenile leaves exhibiting anthocyanin at leaf margins and mature leaves;
- Fig 1.6; Bare stem.

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DETAILED DESCRIPTION OF THE VARIETY

The following is a description of 'POULhi021', as observed in its growth in glasshouses in Fredensborg, Denmark. Color references are made using the Royal Horticultural Society (London, England) Colour Chart, 1995, except where common terms of color are used.

For a comparison, several physical characteristics of the rose variety 'POULra007', a rose variety from the same inventors described and illustrated in U.S. Plant Patent application No. 09/780,135 filed on February 8, 2001 are compared to 'POULhi021' in Chart 1.

CHART 1

7.94		'POULhi021'	'POULra007'
10	Petalage	43 petals with 15 petaloids	40-50 petals with 0-5 petaloids
15	After flower opening, color of outer petals, upper surface	Red Group 42A to Red Group 53B	Red Group 45B
20	Typical leaf	115 mm (1) x 80 mm (w)	60-70 mm (1) x 45-50 mm (w)

FLOWER AND FLOWER BUD

25 Blooming habit: Continuous.

Flower bud:

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<u>Size:</u> Upon opening, 27 mm in length from base

of receptacle to end of bud. Diameter of flower bud is 11 mm.

Bud form:

Pointed ovoid.

Bud color:

As sepals unfold, Red Group 53B; Red

Group 53B at ¼ opening.

Sepals:

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Upper Surface:

Color:

Yellow-Green Group 144A to

Green Group 138B.

Texture:

Slightly pubescent.

Lower Surface:

Color:

Yellow-Green Group 144A.

Shape:

Sepal apex is cirrhose. Base

is flat at union with

receptacle.

Margins:

Margins have weak foliaceous

appendages on three of the

five sepals. Abundant

stipitate glands are very

fragrant, somewhat pine

scented.

Size:

33 mm (1) \times 8 mm (w).

Receptacle:

Surface:

Smooth.

Shape:

Urn-shaped.

Size:

 $8 \text{ mm (h)} \times 5 \text{ mm (w)}.$

Color:

Yellow-Green Group 144B.

Peduncle:

Surface:

Stipitate gland are abundant.

Length:

20 to 40 mm.

Color:

Yellow-Green Group 144B.

10 Strength:

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Strong.

Borne:

Multiples of 1 to 4 buds per

flowering stem.

Flower bloom:

15 <u>Fragrance:</u>

Light floral scent.

<u>Duration:</u>

The blooms have a duration on the

plant of approximately 21 days.

Petals fall cleanly away from

plant.

20 <u>Size:</u>

12-15 cm pot rose. Average flower

diameter is 50 to 55 mm when open.

Flower depth is typically 22 mm.

Form:

Imbricated. General shape is an

open cup with reflexing flower

petals.

Shape of flower when viewed from the side:

Upon opening, upper part: Flat.

Upon opening, lower part: Flat.

Open flower, upper part: Flat.

Open flower, lower part: Convex.

<u>Petalage:</u> On average 43 petals under normal

conditions with 15 petaloids.

10 Color:

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Upon opening, petals:

Outermost petals:

Outer Side: Red Group 45B.

Inner Side: Red Group 42A to Red Group

53B.

Innermost petals:

Outer Side: Red Group 45B.

Inner Side: Red Group 42A to Red Group

53B.

20 <u>Upon opening, basal petal spots:</u>

Outermost petals:

Outer Side: White Group 155C.

Inner Side: White Group 155C.

Innermost petals:

Outer Side: White Group 155C.

Inner Side: White Group 155C.

After opening, petals:

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Outermost petals:

Outer Side: Red Group 45B to 45C.

Inner Side: Red Group 42A to Red Group

53B.

Innermost petals:

Outer Side: Red Group 45B.

Inner Side: Red Group 42A to Red Group

53B.

After opening, basal petal spots:

Outermost petals:

Outer Side: White Group 155C.

Inner Side:

White Group 155C.

Innermost petals:

Outer Side: White Group 155C.

Inner Side: White Group 155C.

General Tonality:

On open flower Red Group 42A to

Red Group 53B. No change in the

general tonality at the end of the

10th day.

Petals:

Petal Reflex: Strongly.

Petal Margin: Entire. With medium undulations.

Shape:

Base: Acute to round.

Apex: Round with point at apex.

Size: 25 mm (1) \times 22 mm (w).

Thickness: Thick.

10 Texture: Smooth.

Arrangement: Not formal.

Petaloids:

Quantity: 15 to 25.

Size: 11 mm (1) x 12 mm (w).

15 Shape: Irregular and rounded.

Color: Red Group 45B.

Reproductive Organs:

Pistils:

Length: 10 mm.

Quantity: 45 (actual count).

Pollen: None observed.

Anthers:

Size: 3 mm long.

Color: Greyed-Yellow Group 160B.

Quantity: 35 (actual count).

Filaments:

Color:

Yellow-Green Group 150D.

Length:

3 mm.

Stigmas:

Superior relative to the length of

the filaments and the height of

the anthers.

Color:

Yellow-Green Group 145B to 145C.

Styles:

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Yellow-Green Group 145B to 145C. Color:

Seed formation:

Not observed.

PLANT

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Plant growth: Vigorous, compact, upright to bushy. When grown as a 12-15 cm pot plant, the average height of the plant itself is 22 cm and the average width is 14 cm.

20 Stems:

Color:

Yellow-Green Group 144B. Young wood:

Yellow-Green Group 144B. Older wood:

Internodal distance: 23 mm (average).

Length of stems: 14 cm.

Surface Texture:

Young wood: Smooth.

Older wood: Smooth.

5 Thorns:

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Incidence: 2 mm per 10 cm of stem.

Size: Average length is 3 mm.

Color: Greyed-Orange Group 163C.

Shape: Linear.

10 Plant foliage: Normal number of leaflets on

normal leaves in middle of the

stem: 5 leaflets.

Compound Leaf size: 115 mm (1) \times 80 mm (w).

Color:

Juvenile foliage:

Upper Surface: Green Group 137A.

Lower Surface: Yellow-Green Group 147C.

Mature foliage:

Upper Surface: Green Group 137A.

Lower Surface: Yellow-Green Group 147C.

Plant leaves and leaflets:

Stipules:

Size: 12 mm in length.

Margins: Finely serrated with abundant

stipitate glands.

Color: Green Group 137C.

Petiole:

Length: 20 mm.

Color:

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Above: Yellow-Green Group 146A.

Underneath: Yellow-Green Group 146C.

Anthocyanin: Greyed-Orange Group 176A.

Surface: Thorns and stipitate glands.

10 Rachis:

Size: 30 mm.

Color:

Above: Yellow-Green Group 146A.

Underneath: Yellow-Green Group 146C.

Anthocyanin: Greyed-Orange Group 176A.

Surface: Thorns and stipitate glands

observed.

Leaflet:

20 Size: 55 mm (1) \times 25 mm (w).

Edge: Serrated.

General Shape: Lanceolate.

Apex Shape: Acute.

Base Shape: Attenuate.

Texture: Smooth.

Arrangement: Odd pinnate.

Venation: Reticulate.

Glossiness: Moderately glossy.

Thickness: Medium.

Disease resistance:

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Above average resistance to mildew, black spot, and <u>Botrytis</u> under normal growing conditions in Fredensborg, Denmark.